

Labor Market Information Pinal County LWIA

Office of Employment and Population Statistics
Arizona Department of Administration

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AGENDA

- LMI in WIOA Local Plans
- Economic Overview
 - Local Demographics
 - Unemployment
 - Industry Growth
- Existing and Emerging In-Demand Industries and Occupations
- LMI Data Sources



Local Plans [Sec. 108 (b)]

- The local plan should include:
 - An analysis of the regional economic conditions, including:
 - Existing and emerging in-demand industry sectors and occupations
 - The employment needs of employers in those industry sectors and occupations
 - An analysis of the knowledge and skills needed to meet the employment needs of the employers in the region
 - An analysis of the workforce in the region, including current labor force employment data, labor market trends, and the education and skill levels of the workforce in the region



LMI should also be included in:

Youth Workforce Investment [Sec. 129 (c)(2)(M)]

 Program elements including services that provide labor market information about in-demand industry sectors or occupations

Training Services [Sec. 134 (C)(3)(G)(iii)]

 Training Services should be directly linked to an in-demand industry sector or occupation in the local area

Career Services [Sec. 134 (e)(3)(A)(1]

- (iv) Labor exchange services including:
 - (I). job search and placement assistance and career counseling including
 - (aa). information on in-demand industry sectors and occupations



Economic Overview PINAL COUNTY LWIA



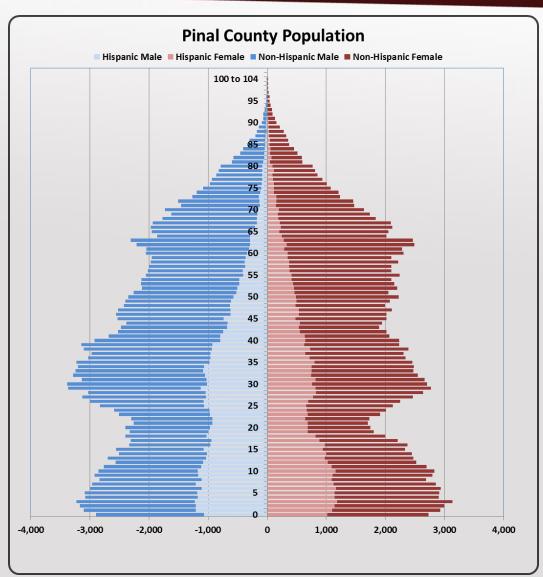
How to use data:

- Use data to drive decision, not validate decisions
- Use more than one source of data don't lock yourself into a single estimate, consider all of the available data to get the most accurate picture
- Know the limitations of your data set it's easy to accidently misuse data and draw erroneous conclusions
- Become familiar with different data sets (or someone who is) there
 is no one place to find all the data you need

Immerse yourself in the data

Be prepared to accept surprising surprises



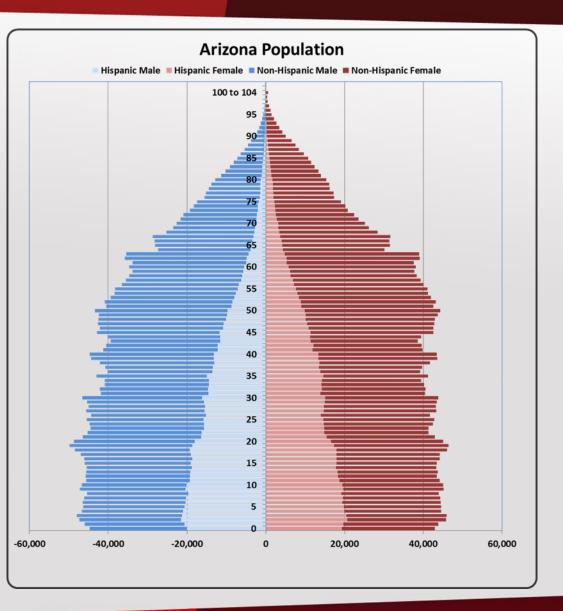


Pinal County

Census 2010

Total Population:		375,770
Hispanic		
Male	57757	15.4%
Female	49220	13.1%
Non-Hispanic		
Male	139408	37.1%
Female	129385	34.4%
Under 17	95,175	25.3%
Age 17 - 24	34,223	9.1%
Age 25 - 34	56,746	15.1%
Age 35 - 44	50,359	13.4%
Age 45 -54	44,388	11.8%
Age 55 - 64	42,808	11.4%
Over 64	52,071	13.9%





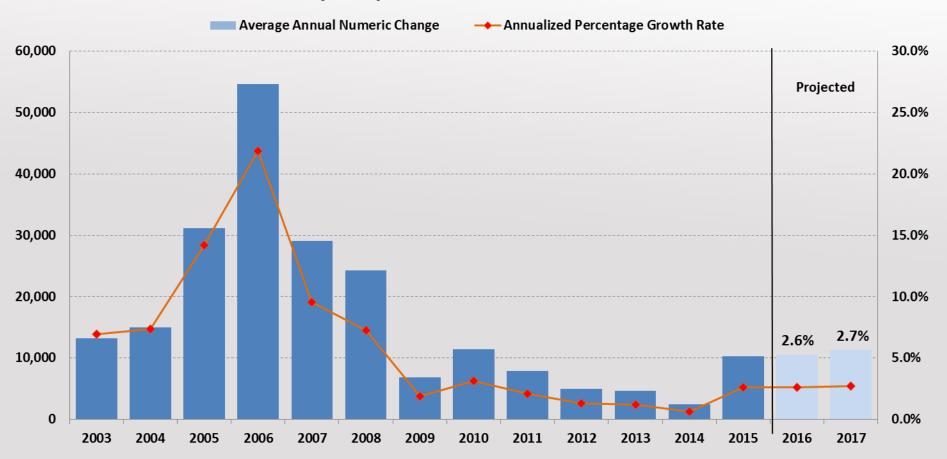
Arizona

Census 2010

Total Population:		6,392,017
Hispanic	1,895,149	29.6%
Male	951,790	14.9%
Female	943,359	14.8%
Non-Hispanic	4,496,868	70.4%
Male	2,224,033	34.8%
Female	2,272,835	35.6%
Under 17	1,537,878	24.1%
Age 17 - 24	724,347	11.3%
Age 25 - 34	856,693	13.4%
Age 35 - 44	822,494	12.9%
Age 45 -54	842,546	13.2%
Age 55 - 64	726,228	11.4%
Over 64	881,831	13.8%



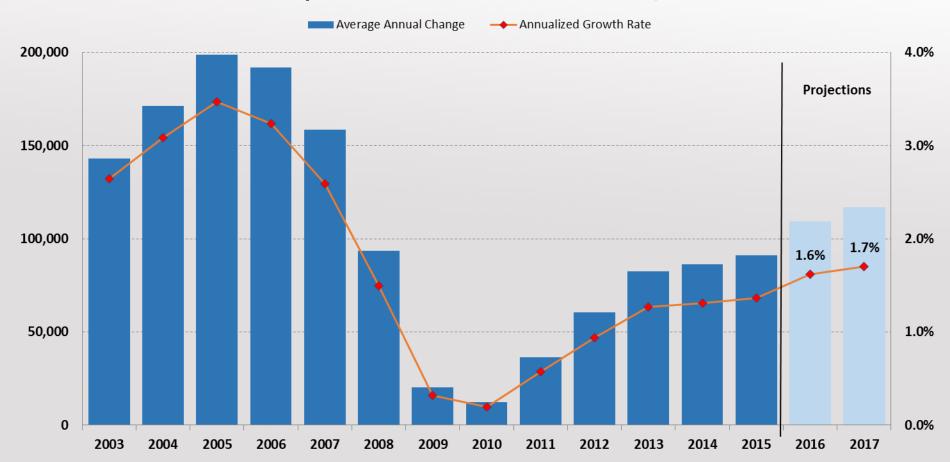
Pinal County's Population Growth and Growth Rates



Source: Produced by the Arizona Office of Employment and Population Statistics using 2010 Census data in cooperation with the U.S. Census Bureau



Arizona's Population Growth and Growth Rates, 2003-2017



Source: Produced by the Arizona Office of Employment and Population Statistics using 2010 Census data in cooperation with the U.S. Census Bureau



Pinal County Quick Facts (2014)

	Pinal County	Arizona	United States
Median Household Income	\$50 , 248	\$49,928	\$53,482
Median Age	36.6	36.5	37.4
Individuals with a Disability Between 18-64	11.5%	9.9%	10.2%
Veterans	12.0%	10.0%	8.3%
Poverty Status	16.8%	18.2%	15.6%
Mean Travel Time to Work	31:18	24:42	25:42
Civilian Labor Force Participation Rate	50.9%	59.7%	63.5%
Population over 16	300,152	5,121,781	248,775,628

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (DP03, S0501, S1810, S2101) in cooperation with the U.S. Census Bureau



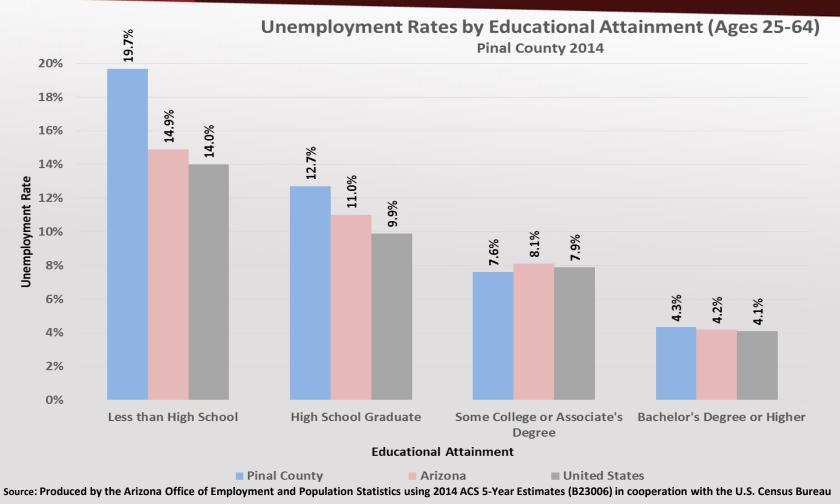
Highest Educational Level Achieved (Population over 25, 2014)

	Pinal County	Arizona	United States
Less than High School	15.0%	14.1%	13.6%
High School Graduate (includes equivalency)	57.8%	50.4%	49.2%
Associate's Degree	9.3%	8.4%	7.9%
Bachelor's Degree	11.8%	17.1%	18.3%
Graduate or Professional Degree	6.1%	10.0%	11.0%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (S1501) in cooperation with the U.S. Census Bureau

 Pinal County has a lower share of residents who have completed formal post-secondary educational degrees





- Unemployment decreases with higher levels of education
- Unemployment is higher in Pinal County regardless of educational attainment, except jobs requiring an Associate's Degree



Pinal County Public Assistance Households (2014)

	Pinal County	Arizona	United States
TANF (Temporary Assistance for Needy Families)	2.3%	2.5%	2.8%
SSI (Supplemental Security Income)	4.6%	4.2%	5.3%
SNAP (Supplemental Nutrition Assistance Program)	12.4%	13.6%	13.0%
Medicaid/AHCCCS (Arizona Health Care Cost Containment System) (Individuals)	20.8%	20.0%	17.8%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (DP03, S2701) in cooperation with the U.S. Census Bureau



Pinal County Health Insurance (2014)

	Pinal County	Arizona	United States
Private Coverage Only (Employer, Direct-Purchase, TRICARE)	46.3%	47.0%	52.7%
Public Coverage Only (Medicare, AHCCCS, Veteran's Admin.)	21.9%	21.1%	17.6%
Both Private and Public Coverage (Some combination of the above, ex. Tricare for Life and Medicare)	17.3%	15.6%	15.5%
Uninsured	14.5%	16.3%	14.2%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (\$2701) in cooperation with the U.S. Census Bureau

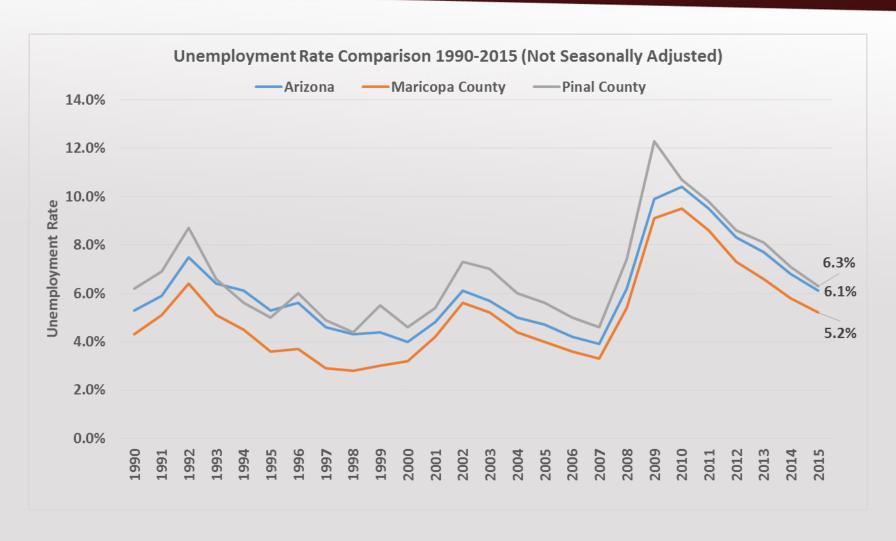


Pinal County Detailed Health Insurance (2014)

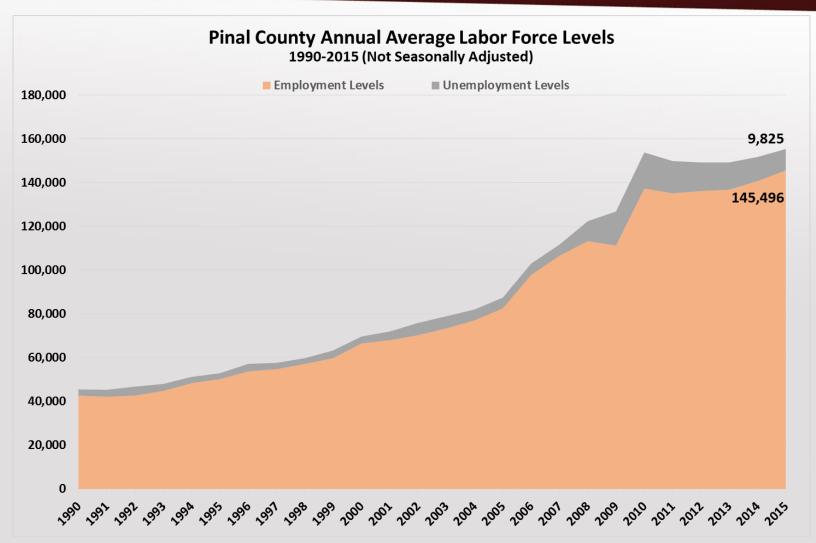
	Pinal County	Arizona	United States
Employment-based (private)	50.1%	48.7%	54.7%
Direct-purchase (private)	11.8%	12.5%	12.4%
TRICARE (private)	3.1%	3.2%	2.7%
Medicare (public)	18.7%	16.5%	15.5%
AHCCCS/Medicaid (public)	20.8%	20.0%	17.8%
VA (public)	3.3%	2.7%	2.1%
Uninsured	14.5%	16.3%	14.2%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (S2701) in cooperation with the U.S. Census Bureau





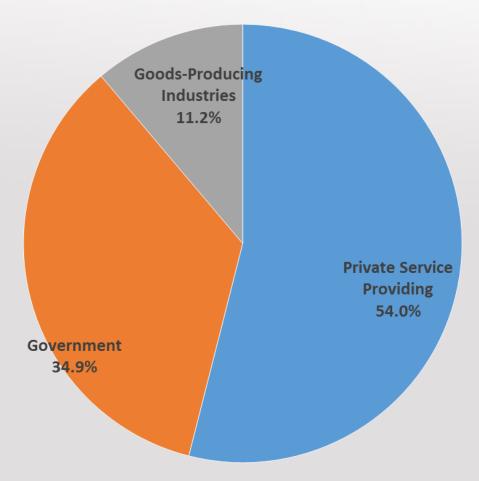






Pinal County Broad Industry Total Nonfarm Employment Share

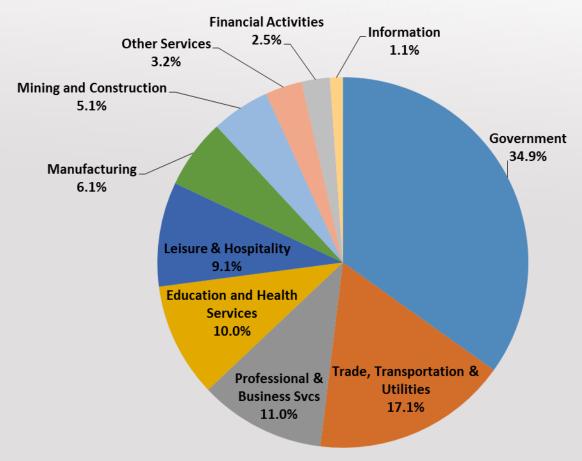
2015 Annual Average, Not Seasonally Adjusted





Pinal County Industry Nonfarm Employment Share

2015 Annual Average, Not Seasonally Adjusted

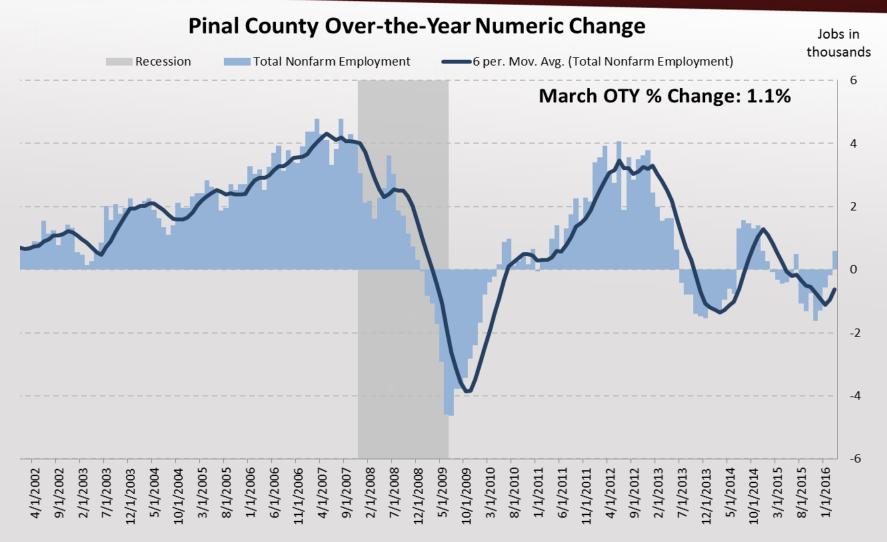




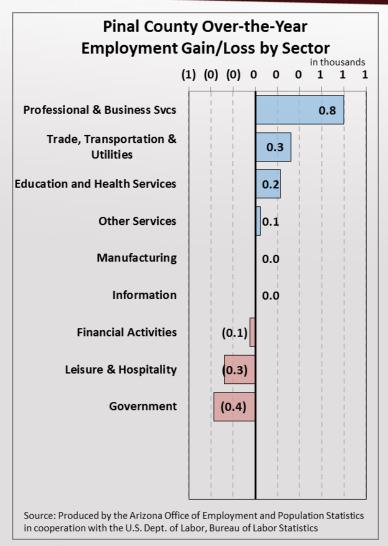
Pinal County Industry Nonfarm Employment Share
2001 & 2015 Annual Averages

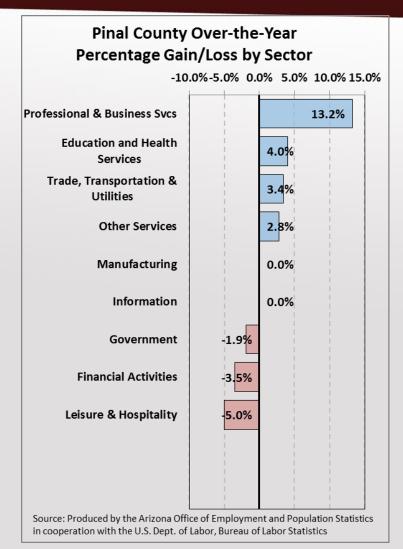
	Employment Share			
Industry	2001	2015	Change	
Financial Activities	2.2%	2.5%	0.3%	
Government	38.9%	34.9%	-4.0%	
Information	0.8%	1.1%	0.3%	
Leisure & Hospitality	7.8%	9.1%	1.3%	
Manufacturing	7.5%	6.1%	-1.4%	
Mining and Construction	7.6%	5.1%	-2.5%	
Other Services	3.3%	3.2%	-0.1%	
Professional & Business Svcs	8.4%	11.0%	2.6%	
Trade, Transportation & Utilities	16.1%	17.1%	1.0%	
Education and Health Services	7.5%	10.0%	2.4%	
Total Nonfarm	100.0%	100.0%	0.0%	













Phoenix-Mesa-Glendale Short Term Industry Employment Projections 2015-2017

Industry Code	Industry Title	Base Employment 2015 Q2	Projected Employment 2017 Q2	Numeric Change	Percent Change
101100	Natural Resources and Mining	12,708	12,206	-502	-2.0%
101200	Construction	98,371	114,381	16,010	7.8%
101300	Manufacturing	118,377	119,631	1,254	0.5%
102100	Trade, Transportation, and Utilities	381,063	400,538	19,475	2.5%
102200	Information	36,959	39,614	2,655	3.5%
102300	Financial Activities	160,226	172,930	12,704	3.9%
102400	Professional and Business Services	311,711	340,905	29,194	4.6%
102500	Education and Health Services	381,456	403,800	22,344	2.9%
102600	Leisure and Hospitality	219,081	235,150	16,069	3.6%
102700	Other Services (Except Government)	51,249	52,737	1,488	1.4%
102800	Government	79,807	79,863	56	0.0%
102900	Unclassified	101,022	105,277	4,255	2.1%

Entire dataset available at: https://laborstats.az.gov/employment-forecasts



Total Employment by Substate Area

Employment Change

			Employment
	2015 Q2(a)	2017Q2(b)	Change
Arizona	2,718,515	2,875,050	156,535
Phoenix MSA ₁	1,952,031	2,077,030	124,999
Tucson MSA ₂	370,866	385,259	14,393
Balance of State ₃	395,848	412,781	16,933

b) Forecast

a) Historical

2) Pima County

1) Maricopa and Pinal Counties

3) Arizona less Maricopa, Pinal and Pima counties



Total Employment by Substate Area

Annual Growth Rate (Compound)

	2013 Q3-2015 Q2(a)	2015 Q3- 2017Q2(b)
Arizona	2.41%	2.84%
Phoenix MSA ₁	2.90%	3.15%
Tucson MSA ₂	0.56%	1.92%
Balance of State ₃ 1) Maricopa and Pinal Counties	1.84%	2.12%

²⁾ Pima County

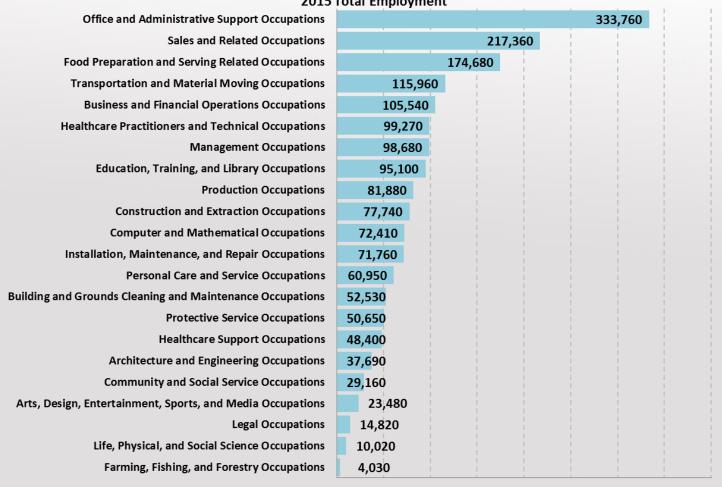
³⁾ Arizona less Maricopa, Pinal and Pima counties

a) Historical

b) Forecast



Phoenix-Mesa-Scottsdale Metro Major Occupational Groups 2015 Total Employment

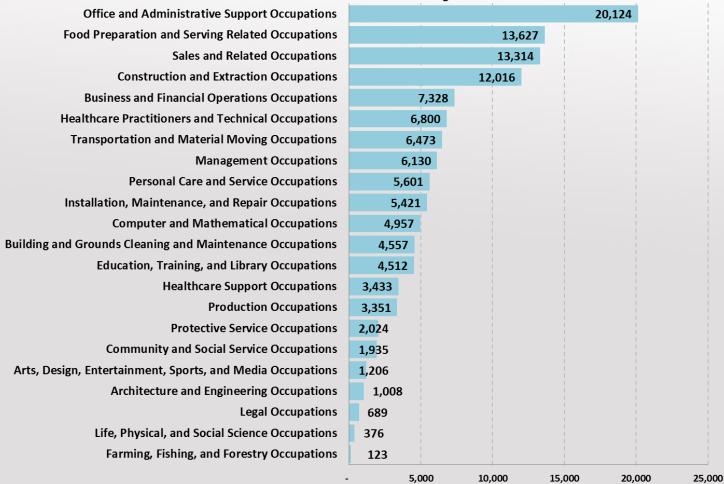


50,000 100,000 150,000 200,000 250,000 300,000 350,000 400,000



Phoenix Metro Major Occupational Groups

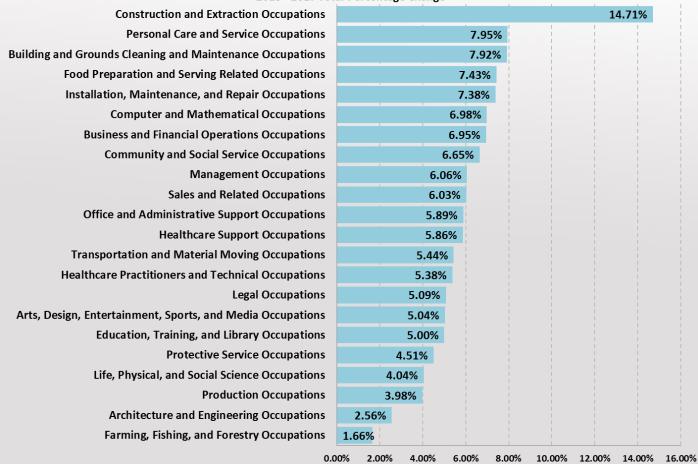






Phoenix Metro Major Occupational Groups

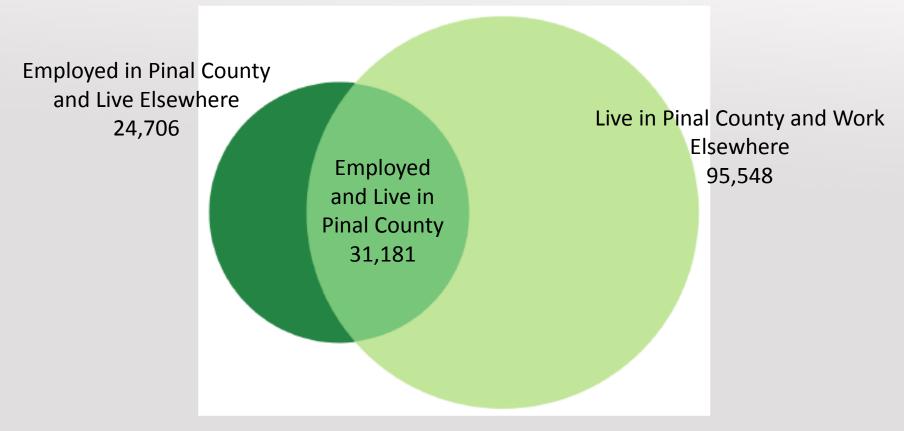
2015 - 2017 Total Percentage Change



Entire dataset available at: https://laborstats.az.gov/employment-forecasts



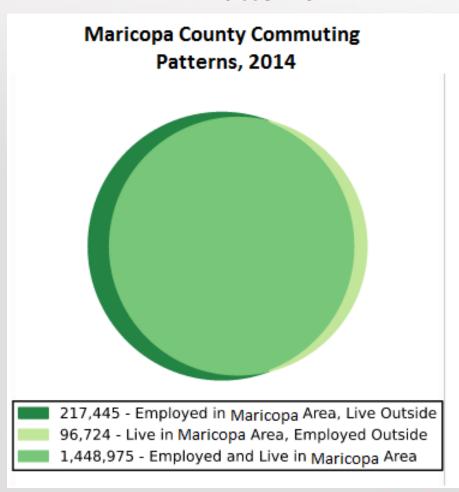
Pinal County Commuting Patterns Pinal County 2014



Source: Produced by the Arizona Office of Employment and Population Statistics using On The Map in cooperation with the U.S. Census Bureau

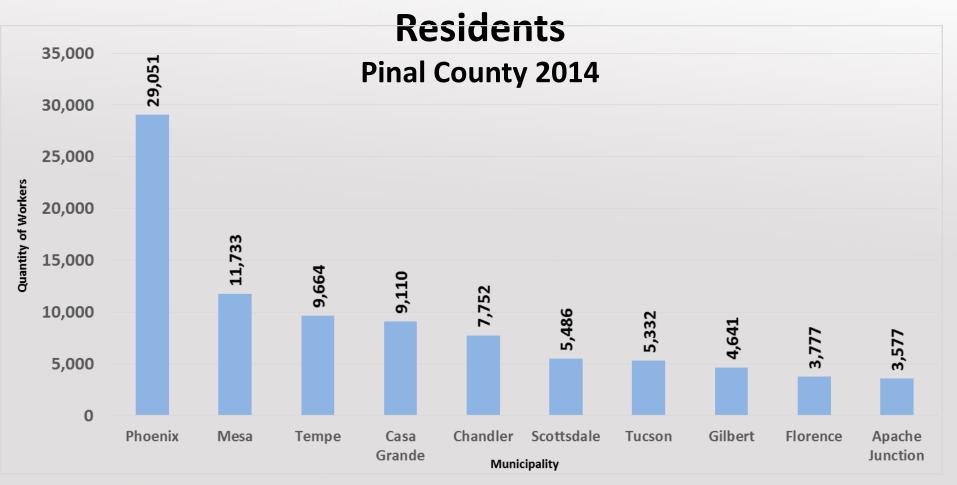


Compared with Maricopa County Commuting Patterns





Top 10 Cities of Employment for Pinal County



Source: Produced by the Arizona Office of Employment and Population Statistics using On The Map in cooperation with the U.S. Census Bureau



Existing and Emerging Demand Industries and Occupations



Methodology cont.

Labor market variables were given different weights depending on the importance of each variable when defining existing and emerging demand industry requirements

- Existing demand industries were identified as industries with large employment bases, above-average wages and high employment and wage location quotients
- Emerging demand industries were identified as industries with small employment levels and large short-term historic employment and wage growth



Location Quotient (LQ)

- A location quotient (LQ) is measurement of a region's industrial specialization relative to a larger geographic unit (usually the nation)
- It allows a subject area's distribution of employment by industry to be compared to a base area's distribution

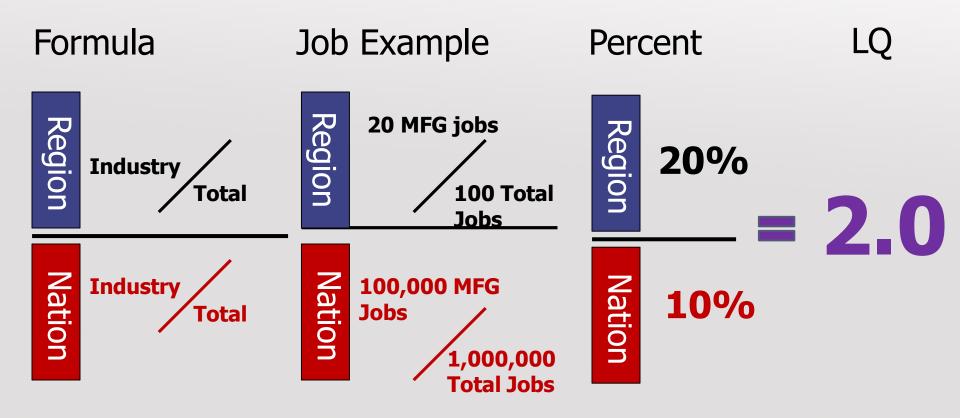
Subject Area: Arizona, Maricopa County, Pima County, Etc.

Base Area: United States

 Allows comparison of relative employment and wage levels in the United States, states, counties, & MSAs



Location Quotient (LQ) Formula





Location Quotient Calculated

How to interpret:

- LQ = 1: The industry has the same share of employment/wages as the reference area
- LQ > 1: The industry has a higher share of employment/wages as the reference area
- LQ < 1: The industry has a lower share of employment/wages as the reference area

Example: an LQ of 1.0 in mining means that the region and the nation are equally specialized in mining; while an LQ of 1.8 means that the region has a higher concentration in mining than the nation.



Model Weighting Structure

Pinal County				
Existing Demand Industry Detai	l			
Variables	Weight	Constraints	Detail	Period
Average Employment Level	2	Top 33%	3-Digit Industry	2014-2015
Average Weekly Wage Level	3	Top 50%	3-Digit Industry	2014-2015
Employment Growth Numeric	1	na	3-Digit Industry	2014-2015
Employment Growth Percentage	1	na	3-Digit Industry	2014-2015
Average Wage Growth Numeric	1	na	3-Digit Industry	2014-2015
Average Wage Growth Percentage	1	na	3-Digit Industry	2014-2015
Employment Location Quotient	2	na	3-Digit Industry	2014-2015
Wage Location Quotient	2	na	3-Digit Industry	2014-2015
Employment Growth Numeric	1	na	2-Digit Super Sector	2011-2015
Employment Growth Percentage	1	na	2-Digit Super Sector	2011-2015
Employment Share Change	1	na	2-Digit Super Sector	2011-2015
Projected Employment Growth Numeric	1	na	2-Digit Super Sector	2012-2022
Projected Employment Growth Percentage	1	na	2-Digit Super Sector	2012-2022

Existing and Emerging Demand Industries were selected based on thirteen employment characteristics



Industries were ranked by each economic variable individually and then averaged together to calculate an overall industry ranking

Pinal County							
Existir	isting Demand Industry Detail VARIABLE RANKINGS						
Overall Rank	3-Digit NAICS Industry	Average Employment Level	Average Weekly Wage Level		Average Wage Growth	Employment Location Quotient	Wage Location Quotient
1	NAICS 561 Administrative and support services	1	4	5	1	3	2
2	NAICS 311 Food manufacturing	5	1	2	2	2	1
2	NAICS 621 Ambulatory health care services	2	5	3	4	4	4
4	NAICS 541 Professional and technical services	4	3	1	3	5	5



Economic data are available to reference for each existing and emerging demand industry identified

Economic data is provided at the two- and three-digit industry NAICS code; depending on the available detail of the data used

Pinal County			
Existing Demand Industry Detail			
NAICS 561 Administrative and support services			
Average Employment Level	4,783		
(3-Digit Industry; 2014-2015)			
Average Weekly Wage Level	\$770		
(3-Digit Industry; 2014-2015)			
Employment Growth	-0.4%		
(3-Digit Industry; 2014-2015)			
Average Wage Growth	4.7%		
(3-Digit Industry; 2014-2015)			
Employment Location Quotient	1.4		
(3-Digit Industry; 2014-2015)			
Wage Location Quotient	1.5		
(3-Digit Industry; 2014-2015)			
Employment Growth	6.9%		
(2-Digit Super Sector; 2011-2015)			
Employment Share Change	1.6%		
(2-Digit Super Sector; 2011-2015)			
Projected Employment Growth	4.9%		
(2-Digit Super Sector; 2012-2022)			



Existing Demand Occupations

Pir	Pinal County			
Existing Demand Industry Detail				
	NAICS 561 Administrative and support services			
		Industry		
Ran	k Occupation Title	Employment Share		
1	Registered Nurses	1.0%		
2	Carpenters	0.8%		
3	Assemblers and Fabricators, All Other	1.0%		
4	Computer Systems Analysts	0.2%		
5	First-Line Supervisors of Construction Trades and Extraction Workers	0.2%		

Top occupations within each industry were identified by wage, employment growth and employment share characteristics



Pinal County				
Existing Demand Occupation Detail				
Registered Nurses				
SOC Code	29-1141			
Education Requirement	Associate's degree			
Work Experience Requirement	None			
On-the-Job Training Requirement	None			
Knowledge Requirement	Psychology			
Skill Requirement	Social Perceptiveness			
Ability Requirement	Problem Sensitivity			
Employment Level	840			
(6-Digit SOC Code; 2014)				
Average Hourly Wage	\$33.6			
(6-Digit SOC Code; 2014)				
Projected Employment Growth	6.8%			
(2-Digit Super Sector; 2012-2022)				
Industry Employment Share	0.98%			
(6-Digit SOC Code; 2014)				

Occupation requirements are provided to identify the needs of employers



Data Sources



LaborStats.az.gov

Employment Data:

laborstats.az.gov/employment

Unemployment Data:

laborstats.az.gov/unemployment

Wage & Income Data:

laborstats.az.gov/wages-income

Employment Projections Data:

laborstats.az.gov/employment-forecasts

Population Data:

laborstats.az.gov/population



Other Labor Market Sources

Commuting Patterns Data:

On the Map: onthemap.ces.census.gov/

Demographics Data:

American Community Survey: census.gov/programs-surveys/acs/

Personal Income & State GDP Data:

US Bureau of Economic Analysis: bea.gov/regional/index.htm

Interactive Employment Mapping:

Maricopa Association of Governments: http://geo.azmag.gov/maps/azdemographics/

Skills and Training Requirement Data:

O*NET: <u>onetonline.org/find/descriptor/browse</u>



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